

EENS Job Risk Assessment

Name(s) of Risk Team Members: J. Heiser, T. Roberts, D. Elling, R. Wieser, L. Gerlach, J. Adams, T. Jamilkowski, P. Carr, J. Boccio, A. Piper (facilitator)	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Machine Shop Work Job Number or Job Identifier: EENS-JRA-002 JRA Date:	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Work in EENS staff machine shops in various buildings. Use of equipment such as lathes, milling machines, drill presses, grinding machines, band saws, table saws by qualified persons. No production, use as needed.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Training and Procedure List (Optional): Supervisor; Equipment Qualification						
Approved by: Date: Rev. #: Draft						
Stressors (if applicable, please list all): Poor Lighting, No Ventilation, Preoccupation	Reason for Revision (if applicable):				Comments: Shop controlled. Staff qualified on equipment.	

				Before Additional Controls							After Additional Controls					
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Set Up, align material on machine tools, break down, clean up	Lacerations, abrasions	Training, gloves, safety glasses, verify machine is de-energized	Y	1	3	2	3	18								
	Contusions, fractures	Training, safety shoes, safety glasses, verify machine is de-energized	Y	1	3	2	3	18								
	Inadvertent starting	Verify machine is de-energized, Training, removal of chuck key														

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				Before Additional Controls						After Additional Controls						
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	Manual lifting	Reference JRA for manual material handling	Y	1	1	3	2	6								
Install cutting tool or blades into machine tools	Lacerations, abrasions	Training, gloves, safety glasses, de-energized	Y	1	3	2	3	18								
	Inadvertent starting	Verify machine is de-energized, Training, chuck key removed	Y	1	3	2	3	18								
Adjust machine appropriate to task	Laceration/Being struck by object	Training, machine maintenance, checking speed prior to cutting operation, safety glasses, machine guarding, chuck key removed	Y	1	3	4	2	24								
	Extremity injured/crushed	Training, machine maintenance, safety glasses, machine guard, safety shoes	Y	1	3	4	2	24								
	Entangled clothing	Training, machine guarding, maintenance, appropriate dress.	Y	1	3	4	2	24								
Milling, drilling, cutting sanding grinding or turning operation	Laceration/Being struck by object, hot metal chips	Training, safety glasses, machine guarding , cutting fluid to cool metal, lighting, anti-kick back, machine maintenance/cleaning, safe start device	Y	1	3	2	2	12								
	Cut by sharp object, drill bits, milling bits or cutting tools	Training, safety glasses, machine guard, proper traffic control, machine adjusting	Y	1	3	2	3	18								

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	Entangled Clothing	Training, machine guarding, maintenance, appropriate dress.	Y	1	3	4	1	12								
	Particles in eyes /	Training, safety glasses, machine guarding, machine cleaning/maintenance	Y	1	3	2	3	18								
Sharpening bits and cutting tools with grinder	Being struck by object, hot metal chips, burn, lacerations	Training, safety glasses, machine guard, maintenance/cleaning, water, proper adjustment of work rest, safe start device	Y	1	3	2	2	12								
De-burring finished part	Lacerations, abrasions, burns	Training, use of proper hand tools, safety glasses, gloves	Y	1	3	1	2	6								
Removing Turnings	Laceration, burns	Ensure machine is de-energized, appropriate tools, Training, Safety glasses, gloves	Y	1	3	1	3	9								
Use of compressed air in machine shops	Skin penetration, flying debris/chips	Training, safety glasses, gloves, pressure relief nozzle assemblies	Y	1	3	2	2	12								
Further Description of Controls Added to Reduce Risk:																
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate					61 to 80 Substantial			81 or greater Intolerable					